Intermional Application No
PCT/JP2005/001438

A. CLASSII	FICATION OF SUBJECT MATTER						
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	n International Patent Classification (IPC) or to both national classific	ation and IPC					
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Documentat	tion searched other than minimum documentation to the extent that	such documents are included in the fields se	arched				
Electronic d	ata base consulted during the International search (name of data ba	se and, where practical, search terms used)				
EPO-In	ternal, WPI Data, CHEM ABS Data						
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C. DOCUM	ENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the re	levant passages	Relevant to claim No.				
<u> </u>							
X	COLLARD ET AL.: "Controlling the Macromolecular Architecture of	e	1,2,4-18				
	Poly(3-alkylthiophene)s by alter						
	Alkyl and Fluoralkyl Substituent						
	MACROMOLECULES,						
	3502-3504, XP002327217	vol. 33, 22 April 2000 (2000-04-22), pages 3502-3504 XP002327217					
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X Furt	ther documents are listed in the continuation of box C.	Patent family members are listed	in annex.				
° Special ca	ategories of cited documents :	"T" later document published after the inte	emational filing date				
"A" docum	ent defining the general state of the art which is not dered to be of particular relevance	or priority date and not im conflict with cited to understand the principle or th	the application but				
"E" earlier	document but published on or after the international	Invention "X" document of particular rel evance; the o	claimed invention				
filing of the fi	ent which may throw doubts on priority claim(s) or	cannot be considered novel or cannot involve an inventive step when the do	t be considered to				
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	nent referring to an oral disclosure, use, exhibition or means	document is combined with one or me ments, such combination being obvio	ore other such docu- us to a person skilled				
"P" docum later t	nent published prior to the international filing date but than the priority date claimed	in the art. "&" document member of the same patent	family				
Date of the	actual completion of the international search	Date of mailing of the international sea	arch report				
	August 200E	2 3. 08. 2005					
9	9 August 2005						
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer					
	Surgean Faterit Onice, F.B. 3010 Pateriliaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,	Manashalina					
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(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT						
etegory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
	PILSTON R L ET AL: "TOWARD HIGHLY FLUORESCENT POLYTHIOPHENES: HEAD-TO-TAIL COUPLED COPOLYMERS OF 3-(METHOXYETHOXYETHOXYMETHYL) THIOPHENE AND 3-(PERFLUOROALKYL) THIOPHENE" SYNTHETIC METALS, ELSEVIER SEQUOIA, LAUSANNE, CH, vol. 111/112, 15 May 1989 (1989-05-15), pages 433-436, XP001151608 ISSN: 0379-6779 whole document	1,2,4-18				
Α	EP 1 329 474 A (XEROX CORPORATION) 23 July 2003 (2003-07-23) page 1, line 6 - page 19, line 31	1-18				
Χ	EP 1 279 689 A (MERCK PATENT GMBH)	1,2,4-18				
A	29 January 2003 (2003-01-29) page 1, line 15 - page 9, line 38	3				
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Boxill Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
'
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,2,4-18

Compound (oligomer/polymer) which can be completely conjugated or only partly conjugated comprising a) alkylated thiophene units and b) perfluorinated thiophene units which are separated by c) an odd number of "rings" + their use in organic thin film transistors (OFET)

2. claim: 3

Purely conjugated compound (oligomer/polymer) comprising a) alkylated thiophene units and b) perfluorinated thiophene units which are separated by c) an odd number of "rings" + their use in organic thin film transistors (OFET)

Information on patent ramily members

Intellicitional Application No PCT/JP2005/001438

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
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EP 1279689	A	29-01-2003	EP JP US	1279689 A2 2003176338 A 2003062509 A1	24-06-2003

Form PCT/ISA/210 (patent family annex) (January 2004)